

Single Die Probability

Use the stated equally likely outcomes. Give each probability as a simplified fraction.

1.

Roll one fair six-sided die.

1-6

List the complete sample space.

6.

Roll one fair six-sided die.

1-6

What is the probability of value divides 18?

2.

Roll one fair six-sided die.

1-6

What is the probability of value is a multiple of 1?

7.

Roll one fair six-sided die.

1-6

What is the probability of value divides 15?

3.

Roll one fair six-sided die.

1-6

What is the probability of value = 12?

8.

Roll one fair six-sided die.

1-6

What is the probability of value divides 4?

4.

Roll one fair six-sided die.

1-6

What is the probability of value divides 60?

9.

Roll one fair six-sided die.

1-6

What is the probability of value <= 6?

5.

Roll one fair six-sided die.

1-6

What is the probability of value is a multiple of 4?

10.

Roll one fair six-sided die.

1-6

What is the probability of value < 6?

Single Die Probability

Answer key

Use the stated equally likely outcomes. Give each probability as a simplified fraction.

1.

Roll one fair six-sided die.

1-6

List the complete sample space.

{1, 2, 3, 4, 5, 6}. {1, 2, 3, 4, 5, 6}

6.

Roll one fair six-sided die.

1-6

What is the probability of value divides 18?

P = 2/3. Matching outcomes: 1, 2, 3, 6. 4 favorable outcomes out of 6; 4/6 = 2/3.

2.

Roll one fair six-sided die.

1-6

What is the probability of value is a multiple of 1?

P = 1. Matching outcomes: 1, 2, 3, 4, 5, 6. 6 favorable outcomes out of 6; 6/6 = 1.

7.

Roll one fair six-sided die.

1-6

What is the probability of value divides 15?

P = 1/2. Matching outcomes: 1, 3, 5. 3 favorable outcomes out of 6; 3/6 = 1/2.

3.

Roll one fair six-sided die.

1-6

What is the probability of value = 12?

P = 0. Matching outcomes: . 0 favorable outcomes out of 6; 0/6 = 0.

8.

Roll one fair six-sided die.

1-6

What is the probability of value divides 4?

P = 1/2. Matching outcomes: 1, 2, 4. 3 favorable outcomes out of 6; 3/6 = 1/2.

4.

Roll one fair six-sided die.

1-6

What is the probability of value divides 60?

P = 1. Matching outcomes: 1, 2, 3, 4, 5, 6. 6 favorable outcomes out of 6; 6/6 = 1.

9.

Roll one fair six-sided die.

1-6

What is the probability of value <= 6?

P = 1. Matching outcomes: 1, 2, 3, 4, 5, 6. 6 favorable outcomes out of 6; 6/6 = 1.

5.

Roll one fair six-sided die.

1-6

What is the probability of value is a multiple of 4?

P = 1/6. Matching outcomes: 4. 1 favorable outcomes out of 6; 1/6 = 1/6.

10.

Roll one fair six-sided die.

1-6

What is the probability of value < 6?

P = 5/6. Matching outcomes: 1, 2, 3, 4, 5. 5 favorable outcomes out of 6; 5/6 = 5/6.